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NOTICE OF ALLOWANCE AND FEE(S) DUE

20995

7590

10/17/2008

KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET FOURTEENTH FLOOR IRVINE, CA 92614 EXAMINER

LEWIS, DAVID LEE

ART UNIT PAPER NUMBER

2629

DATE MAILED: 10/17/2008

	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/772,120	02/03/2004	Clarence Chui	IRDM.002A/IDC-0023	4288

TITLE OF INVENTION: DRIVER VOLTAGE ADJUSTER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	01/20/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further	correspondence includir ed below or directed oth	ng the Patent, advance o	rders and notification of r	naintenance fees wil	l be mailed to the current	correspondence address as trate "FEE ADDRESS" for	
	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)	Feet	(c) Transmittal This	nailing can only be used for certificate cannot be used for paper, such as an assignment of mailing or transmission.	r domestic mailings of the or any other accompanying nt or formal drawing, must	
20995 7590 10/17/2008 KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET FOURTEENTH FLOOR				Certi	ficate of Mailing or Trans		
IRVINE, CA 92	3014					(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	1	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/772,120 TITLE OF INVENTION	02/03/2004 I: DRIVER VOLTAGE A	ADJUSTER	Clarence Chui		IRDM.002A/IDC-0023	4288	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	YES	\$755	\$300	\$0	\$1055	01/20/2009	
EXAM	MINER	ART UNIT	CLASS-SUBCLASS]			
LEWIS, D.	AVID LEE	2629	345-108000	,			
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON PLEASE NOTE: Unless an assignee is identified below, no assignee 			(1) the names of up to or agents OR, alternating (2) the name of a single registered attorney or a 2 registered patent attolisted, no name will be THE PATENT (print or type).	e name of a single firm (having as a member a ared attorney or agent) and the names of up to stered patent attorneys or agents. If no name is no name will be printed.			
(A) NAME OF ASSIGNATION (A) Please check the appropriate (a). The following fee(s)	GNEE riate assignee category or	categories (will not be p	(B) RESIDENCE: (CITY	and STATE OR CO		oup entity 🚨 Government	
☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
NOTE: The Issue Fee an	ns SMALL ENTITY statu	us. See 37 CFR 1.27.	ed from anyone other than t		ENTITY status. See 37 CF ered attorney or agent; or the		
Authorized Signature				Date			
Authorized Signature Typed or printed name							
	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bu Virginia 22313-1450. DO			_		I by the USPTO to process) g gathering, preparing, and ne you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,	

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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/772,120 02/03/2004 Clarence Chui IRDM.002A/IDC-0023 4288 **EXAMINER** 20995 7590 10/17/2008 LEWIS, DAVID LEE KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET ART UNIT PAPER NUMBER FOURTEENTH FLOOR 2629 **IRVINE, CA 92614** DATE MAILED: 10/17/2008

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1076 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1076 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s)						
	10/772,120	CHUI, CLARENCE				
Notice of Allowability	Examiner	Art Unit				
	DAVID L. LEWIS	2629				
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS				
1. This communication is responsive to <u>5/27/2008</u> .						
2. The allowed claim(s) is/are <u>1-3 and 5-21</u> .						
 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 						
2. Certified copies of the priority documents have	been received in Application No	·				
3. Copies of the certified copies of the priority doc	cuments have been received in this r	national stage application from the				
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.						
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.						
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.					
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached						
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).						
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s)						
1. Notice of References Cited (PTO-892)	5. Notice of Informal Pa	' '				
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat	ė .				
3. Information Disclosure Statements (PTO/SB/08),	7. 🗌 Examiner's Amendn	7. ☐ Examiner's Amendment/Comment				
Paper No./Mail Date <u>7/21/08, 5/2/08; 2/15/08;</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	nt of Reasons for Allowance				
of Biological Material	 9.					
/David L Lewis/						
Examiner, Art Unit 2629						



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REASONS FOR ALLOWANCE

1. Claims 1-3 and 5-21 are allowed over the prior art of record.

- 2. Claim 4 has been canceled.
- 3. The following is an examiner's statement of reasons for allowance: The Applicant's arguments filed on 5/27/2008 are persuasive. The prior art of record fails to teach of the claimed invention. The feature of independent claim 1 directed towards allowable subject matter is a voltage adjuster to adjust address voltages to provide adjusted row address voltages to the array of interferometric elements, wherein the voltage adjuster further comprises a resistor divider network configured to lower the address voltage amplitudes that are provided by the standardized display driver. The feature of independent claim 7 directed towards allowable subject matter is a method of manufacturing an array of modulator elements and an adjuster circuit, comprising: forming a resistor divider network configured to lower address voltage amplitude that are provided from a standardized display driver; and forming resistors from one metal layer and connecting the resistors with a subsequent metal layer. The feature of independent claim 16 directed towards allowable subject matter is a first resistor connected between the address line and a conductive bus, and a second resistor connected between the address line and an adjusted address line, wherein the resistor network lowers address voltage amplitudes provided by a standardized display driver. As in claims 1 and 7, Richards teaches of a like device but fails to teach of said resistor divider network of said voltage adjuster in combination with said interferometer elements. As in clam 16, Richards fails to teach of said resistor network. Therefore the above said features in combination with the other limitations of the above independent claims 1, 7, and 16, and

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therefore claims 1-3 and 5-21, are found to be allowable over the prior art of

record.

4. Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should

preferably accompany the issue fee. Such submissions should be clearly labeled

"Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to David L. Lewis whose telephone number is

(571) 272-7673. The examiner can normally be reached on MTWTHF from 8 to

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Bipin Shalwala, can be reached on (571) 272-7681. Any

inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the Group receptionist whose telephone

number is (571)-273-8300.

6. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR

For more information about the PAIR system, see http://paironly.

direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-

free).

Examiner: David L. Lewis

August 20, 2008

/David L Lewis/

Examiner, Art Unit 2629